GeometryQuiz02: Circles

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Question 1

Find the circumference of a circle with radius 7 cm.

Question 2

Calculate the area of a circle with a diameter of 10 cm.

Question 3

If two circles have radii in the ratio 3:4, find the ratio of their circumferences.

Question 4

A sector of a circle has an angle of 60° and a radius of 6 cm. Find the length of the arc of the sector.

Question 5

The area of a circle is 78.5 cm². Find its radius.

Question 6

A chord of a circle is 12 cm long, and the distance from the center of the circle to the chord is 5 cm. Find the radius of the circle.

Question 7

Find the length of a chord which is 6 cm away from the center of a circle with a radius of 10 cm.

Question 8

In a circle, the measure of an inscribed angle is 45°. What is the measure of the corresponding central angle?

Question 9

Two tangents are drawn to a circle from an external point. If the distance between the tangents at the points of tangency is 8 cm, find the radius of the circle.

Question 10

Find the area of a sector with radius 4 cm and central angle 120°.